

Mission Order Generated on:2019-04-12 07:30:07.450486

\*\* Basic Survey Information \*\*

Mission/Deployment Name: ITC Fire

Mission Order Number: 001

Flight Window: 12 April 2019 0845(Local Take Off)  
0900(Local Over Target)

Overall Mission Objectives: - Photographic  
- Chemical

Specific Mission Objectives:

objective 1. Collect chemical data over the tank farm  
objective 2. Collect chemical data downwind of the tank farm  
objective 3. Collect chemical data over the southern shore of the  
ship channel

Communications will be accomplished using Pidgin  
Contact person is: Tim (816-718-4281)

Special Instructions:

Make certain that oblique data is saved using the link on the desktop

Debrief Time: EOF

\*\*End of Page 1\*\*

\*\* Target Description \*\*

Target 1. Tank farm  
Target 2. Downwind areas  
Target 3. Confluence area (southern shore)

\*\* Mission Design \*\*

The position of the ER is not known.

The ER flight profile will consist of:

Line 1 ==== Over the tank farm  
Line 2 ==== 50 - 100 meters downwind of the incident  
Line 3 ==== 500 meters downwind of the incident  
Line 4 ==== Line up the plume  
Line 5 ==== Over the confluence area

\*\* Navigational/GPS Data \*\*

Latitude data was not given  
Longitude data was not given

\*\* INS Data and Time \*\*

Software: Use Vector\_Nav\_Collect for GPS/INS data  
Make certain that the time source is active and locked prior to  
system startup

Crew Reporting Elements:

1. Temperature at flight level?
2. Wind direction and speed at flight level?
3. Nature of the incident and/or plume?
4. Plume/smoke color?
5. Is the plume rising or staying close to the ground?
6. What direction is the plume/smoke moving?
7. What activities are observed on the ground?

\*\* End of Page 2 \*\*

\*\* Page 3 \*\*

\*\* Photo Parameters \*\*

Camera System                      Operate

Nikon	
MSIC	X
Oblique	X
Visible Video	
IR Video	
Visible and IR Video	X

Altitude (AGL) = 2800 Ft  
Air Speed = 102 Kts  
Frame Interval = 6 Seconds

Collect and process IR video over the tank farm and confluence area

If the oblique camera is used:

1. Set the Date
2. Set the Time
3. Shoot frames from the copilot position

Software or actions needed for the MSIC:

1. Start Event Timers
2. MSIC\_Controller
3. Collect a line of photos to test controller settings

Software needed for the Video:

VCR\_drive\_Controller

\*\* End of Page 3 \*\*

\*\*\*\*\* ASPECT Mission Order \*\*\*\*\*

\*\* Page 4 \*\*

\*\* Chemical Parameters \*\*

Chemical Collection Altitude =2800 Ft AGL  
Collect Data with the FTIR Sensor

FTIR Resolution = 16 cm<sup>-1</sup>

Mission Specific FTIR Notes

Collect Data with the IRLS Sensor

TA Blackbody = Auto Mode  
TB Blackbody = Auto Mode

Mission Specific IRLS Notes

Check and Sync the IRLS computer time  
Confirm that the unit has cooled down (T = 1.06V)  
If TA/TB are in Auto Mode obtain air temperature from the reachback team

Software: Use RS800 BB Log for auto Blackbody operation

\*\* End of Page 4 \*\*